

ABSTRACT OF THE DISCLOSURE

The invention provides a technology which utilizes donor lymphocyte infusion and by which malignant tumor
5 can be treated without causing such an adverse effect as graft versus host disease. Thus, a method for the treatment of malignant tumor is provided which comprises performing, in a patient requiring such treatment, donor lymphocyte infusion for the graft versus tumor reaction-
10 based treatment of tumor and then performing radiation treatment, infusion of lymphocytes derived from the host or a third party identical in HLA type to the host, and intra bone marrow-bone marrow transplantation using bone marrow cells derived from the host or a third party
15 identical in HLA type to the host, for the prevention and treatment of the graft versus host disease induced by the donor lymphocyte infusion.